

[DEFINITIONS]

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; [ ... ]:  
; THE DRIVER NAME IS ASSIGNED BETWEEN BRACES. EACH DRIVER MUST BE  
; ASSIGNED A UNIQUE NAME. THE MAXIMUM LENGTH FOR THE DRIVER NAME  
; IS 24 CHARACTERS. THE TOTAL NUMBER OF DRIVERS ALLOWED IS 255.  
;  
;  
; DRIVER#:  
; EACH DRIVER MUST HAVE A UNIQUE ID NUMBER ASSIGNED [FROM 1 TO 255].  
; A DRIVER IS USED TO AUTOMATICALLY TRANSMIT A PREDEFINED SEQUENCE  
; OF CHARACTERS ("TXSTART"+"TXCOMMAND"+"TXEND") TO AN EXTERNAL PORT,  
; THEN TO CAPTURE THE RESPONSE DATA RECEIVED AT THE PORT, AND LAST  
; TO EXTRACT SPECIFIC VALUES FROM THE RESPONSE AND DISPLAY THEM ON  
; SCREEN ("RXSTRIP"). IF A UNIQUE DRIVER# IS ASSIGNED, THEN THE  
; DRIVER IS LOADED TO MEMORY AND THE DRIVER'S NAME IS ADDED TO THE  
; LIST OF DRIVER NAMES IN THE PORT CONFIGURATION DIALOG, OTHERWISE  
; THE DRIVER IS IGNORED.  
;  
;  
; OTHER DRIVERS CAN ALSO BE REFERENCED OR INCLUDED BY USING THE "&"  
; CHARACTER FOLLOWED BY THE DRIVER# TO INCLUDE. FOR EXAMPLE:  
; "DRIVER#=2 &7 &1" WILL CAUSE DRIVERS 2, 7, AND 1 TO EXECUTE [MAX  
; IS 64 INCLUDED DRIVERS]. INCLUDED DRIVERS CAN ALSO INCLUDE OTHER  
; DRIVERS. FOR EXAMPLE: "DRIVER#=4 &2 &5" WILL CAUSE DRIVERS 4, 2,  
; 7, 1, AND 5 TO EXECUTE.  
;  
;  
; DRIVERS ARE EXECUTED IN THE ORDER THAT THEY ARE INCLUDED STARTING  
; WITH THE DRIVERS ATTACHED TO DEVICE# 1 & ENDING WITH DRIVER# LAST.  
; IN GENERAL, THERE ARE SIX DIFFERENT WAYS TO EXECUTE A DRIVER:  
;  
; 1) PERIODICALLY: "TXPERIOD=4" WILL EXECUTE ONCE EVERY 4 SECONDS  
; 2) DAILY: "TXPERIOD=T1830" WILL EXECUTE ONCE @ 6:30 P.M.  
; 3) WEEKLY: "ONWOW=7" WILL EXECUTE ON SUNDAY @ "TXPERIOD"  
; 4) MONTHLY: "ONDAY=14" WILL EXECUTE ON THE 14TH @ "TXPERIOD"  
; 5) CONDITIONALLY: USING "SETMESSAGE", "ATMESSAGE" AND "M" COMMANDS  
; 6) MANUALLY: BY SELECTING FROM THE CONTROL OPTIONS MENU  
;  
;  
; PERIODICALLY EXECUTED DRIVERS ARE CALLED INTERROGATION DRIVERS  
; AND ARE EXECUTED ONCE EVERY TIME THE "TXPERIOD" INTERVAL ELAPSES.  
; MANUALLY EXECUTED DRIVERS ("TXPERIOD=0" AND "TXDELAY=0") ARE  
; CALLED CONTROL MENUS AND ARE EXECUTED FROM THE "CONTROL MENU" LIST  
; IN THE DXF DISPLAY. THE "CONTROL MENU" IS AVAILABLE DURING CONTROL  
; MODE ONLY AND PERIODIC DRIVERS EXECUTE DURING BROWSE MODE ONLY.  
;  
;  
; TYPE:  
; DEFINES THE TYPE OF DATA SPECIFIED IN THE "TX" & "LOG" COMMANDS.  
; THE TYPES ARE "ASCII" OR "HEXADECIMAL". THESE TYPES MAY CONTAIN  
; ESCAPE SEQUENCES SUCH AS ^[10;13;P10] FOR "RETURN"+"LINE FEED"  
; FOLLOWED BY A 10 SECOND DELAY (MAX DELAY IS 255 SECONDS).  
;  
;  
; REPORTIF:  
; SEQUENCE OF CHARS TO SEARCH FOR (ASCII OR BINARY) IN THE CAPTURED  
; DATA. IF THE SEQUENCE IS NOT FOUND THEN REPORT WILL BE BYPASSED  
; AND THE DATA WILL BE DELETED. MAKE SURE ARCHIVE IS ACTIVE TO  
; RETAIN A COPY OF THE CAPTURED DATA. IF THE SEQUENCE IS FOUND THEN  
; THE CAPTURED DATA WILL BE REPORTED TO THE HOST COMPUTER. THE MAX  
; SEQUENCE LENGTH IS 255 CHARS. ESCAPE SEQUENCES ARE ALLOWED FOR  
; THIS COMMAND.
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; SETPORT:
;     A COMMAND USED TO REINITIALIZE THE PORT CONFIGURATION DYNAMICALLY.
;     USE THIS COMMAND TO REINITIALIZE A PORT'S BAUD RATE, BYTE SIZE,
;     PARITY AND STOPBITS BEFORE THE DRIVER IS EXECUTED. THIS FEATURE
;     IS USEFUL WHEN SWITCHING BETWEEN DIFFERENT DEVICES CONNECTED VIA
;     THE SAME PORT. FOR EXAMPLE IF 2 SEL 2030 WITH DIFFERENT PORT
;     CONFIGURATIONS ARE BEING POLLED FROM THE SAME MODEM OR DIRECT
;     CONNECTION THEN SETPORT WILL INSURE THE PROPER PORT CONFIGURATION
;     FOR BOTH SEL 2030S.
;
; SETSYSVAR:
;     AN INTERNAL COMMAND USE TO CHANGE THE VALUE OF ANY ONE OF THE 7
;     ESCSEQ INTERNAL VARIABLES. THE ESCSEQ VARIABLES ARE DEFINED IN THE
;     DEVICE RECORD. THE COMMAND SEQUENCE IS SETSYSVAR=EXISTINGVARNAME
;     NEWVARNAME. THIS FEATURE WAS CREATED FOR THE "CHANGE PASSWORD"
;     FEATURE BUT CAN BE USED FOR ANY ONE OF THE ESCSEQ VARIABLES DEFINED.
;     THE EXAMPLE BELOW CHANGES THE PASSWORD DEFINED IN THE 3RD ESCSEQ
;     VARIABLE DEFINED IN THE DEVICE RECORD WITH A RANDOMLY GENERATE 6
;     CHARACTER PASSWORD. THE "CRCPASS" ESCAPE CODE COMMAND CREATES A 6
;     CHARACTER RANDOMLY GENERATED STRING. THE DEVICE RECORD IN THE
;     DATABASE (CFG_SHOT.DTB) AND ON SCREEN IS UPDATED WITH THE VARIABLE
;     STRING. THE MAXIMUM LENGTH IS 80 CHARACTERS AND ESCAPE CODE
;     SEQUENCE COMMANDS ARE ALLOWED.
;
;     EXAMPLE: SETSYSVAR ^[^CMND2] ^[CRCPASS]
;
; LOGPERIOD:
;     THE SAVE CYCLE IN SECONDS (AN INTEGER NUMBER UP TO 2 MILLION).
;     FOR EXAMPLE, IF "LOGPERIOD=90" WAS SPECIFIED THEN THE VARAIABLES
;     AND TEXT THAT ARE SPECIFIED IN "LOGCOMMAND" WILL BE SAVED TO DISK
;     ONCE EVERY 90 SECONDS. THE SAVED DATA IS STORED IN TEXT FORMAT
;     UNDER THE FILENAME SPECIFIED IN "LOGFILE=" IN THE SAVE DIRECTORY.
;     IF "LOGPERIOD=0" WAS SPECIFIED THEN THESE ACTIONS WILL NOT OCCUR
;     UNLESS "LOGDELAY>0" WAS SPECIFIED IN WHICH CASE THE DRIVER WILL
;     EXECUTE ONE TIME ONLY. IF "LOGPERIOD=T0800" WAS SPECIFIED THEN
;     THE DRIVER WILL EXECUTE AT 08:00 MILITARY TIME.
;
; LOGDELAY:
;     THE DURATION IN SECONDS TO WAIT BEFORE THE LOG CYCLE BEGINS.
;     FOR EXAMPLE, IF "LOGDELAY=3" WAS SPECIFIED THEN ONLY THE FIRST
;     OCCURRENCE OF "LOGPERIOD" IS DELAYED BY 3 SECS. IN THE PREVIOUS
;     EXAMPLE THE FIRST PERIOD WILL OCCUR AFTER 93 SECONDS, ALL OTHERS
;     WILL OCCUR 90 SECONDS APART. IF "LOGPERIOD=0" WAS SPECIFIED THEN
;     SPECIFYING "LOGDELAY" WILL CAUSE THE DRIVER TO EXECUTE ONLY ONE
;     TIME (USEFULL FOR WRITTING HEADERS TO THE LOG FILE).
;
; LOGFILE:
;     THE PATH AND NAME OF THE TEXT FILE THAT WILL CONTAIN THE OUTPUTS
;     OF THE "LOGCOMMAND=". IF THE PATH IS NOT SPECIFIED THEN THE DEFAULT
;     SAVE PATH IS USED. IF "LOGFILE=[PATH]\BASE50" IS SPECIFIED OR IF
;     THE COMMAND "LOGFILE" IS NOT INCLUDED, THE SYSTEM WILL AUTOMATICALLY
;     ASSIGN A LONG FILE NAME (ACCESSED VIA "*.CSV" SWITCH). THE MAXIMUM
;     STRING LENGTH IS 255 CHARACTERS. ESCAPE CODE ARE ALLOWED.
;
; LOGRENAME:
;     RENAMES THE SPECIFIED FILE TO A LONG FILE NAME (ACCESSED VIA

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;          "*.CSV" SWITCH).  THE SPECIFIED FILENAME MUST EXIST IN THE
;          SPECIFIED PATH.  IF THE PATH IS NOT SPECIFIED THEN THE DEFAULT
;          SAVE PATH IS USED.  THIS COMMAND IS REQUIRED INORDER TO TRANSFER
;          FILES THAT ARE BEING PERIODICALLY APPENDED.  LOGRENAME OCCURS
;          UPON TXPERIOD AND NOT UPON LOGPERIOD.  THE MAXIMUM STRING LENGTH
;          IS 255 CHARACTERS.  ESCAPE CODE ARE ALLOWED.
;
;LOGCOMMAND:
;          SEQUENCE OF CHARS TO SAVE (ASCII OR BINARY) UPON "LOGPERIOD".
;          THE MAX SEQUENCE LENGTH IS 1024 CHARS.  ESCAPE SEQUENCES ARE
;          ALLOWED IN THIS COMMAND.  FOR EXAMPLE THE COMMAND:
;
;
;          ^[10;13;YR;Y;MON;DAY;HR;MIN;SEC;HSEC;ID;HDR;ADDR;SID;STN;VER;^TOTMW^2]
;
;          WILL CAUSE A RETURN, LINE FEED, 4 DIGIT YEAR, 2 DIGIT YEAR, MONTH,
;          DAY, HOUR, MINUTE, SECOND, HUNDREDTH SECOND, DEVICE NUMBER, DEVICE
;          NAME, DEVICE ADDRESS, STATION NUMBER, STATION NAME, VERSION AND
;          THE VALUE OF THE USER VARIABLE "TOTMW" FROM DEVICE# 2, TO BE SAVED
;          TO THE LOG FILE.  WARNING: USING A PAUSE COMMAND IN THIS ESCAPE
;          SEQUENCE WILL GENERATE ERRORS.
;
; LOGHEADER:
;          SEQUENCE OF CHARS TO SAVE (ASCII OR BINARY) UPON CREATION OF
;          THE FILE SPECIFIED IN THE "LOGFILE" COMMAND.  THE MAX SEQUENCE
;          LENGTH IS 1024 CHARS.  ESCAPE SEQUENCES ARE ALSO ALLOWED.
;
; RENFILE:
;          AUTOMATICALLY RENAMES AN EXISTING FILE TO A NEW NAME.  THE COMMAND
;          SEQUENCE IS RENFILE=PATH+EXISTING FILE NAME | NEW FILE NAME.  THE
;          SPECIFIED FILE MUST EXIST IN THE SPECIFIED PATH.  THE PIPE SIGN IS
;          USED AS A SEPARATOR BETWEEN THE OLD PATH & FILENAME AND THE NEW PATH
;          & FILE NAME.RENFILE EXECUTES UPON A "TXPERIOD" COMMAND OR UPON AN
;          "ATMESSAGE" COMMAND.  THE MAXIMUM LENGTH IS 255 CHARACTERS AND
;          ESCAPE CODE COMMANDS ARE ALLOWED.
;
;          EXAMPLE:  RENFILE=C:\TEMP\^[^CMND].CSV C:\TEMP\^[^CMND1].CSV
;
; DELFILE:
;          AUTOMATICALLY DELETES THE SPECIFIED FILE.  THE COMMAND SEQUENCE IS
;          DELFILE=PATH+FILENAME.  DELFILE EXECUTES UPON A "TXPERIOD" COMMAND
;          OR UPON AN "ATMESSAGE" COMMAND.  THE MAXIMUM LENGTH IS 255
;          CHARACTERS AND ESCAPE CODE COMMANDS ARE ALLOWED.
;
;          EXAMPLE:  DELFILE=C:\TEMP\^[^CMND].CSV
;
; RUNFILE:
;          RUNS THE SPECIFIED FILE AND PASSES THE DEFINED COMMAND LINE
;          PARAMTERS.  THE COMMAND SEQUENCE IS RUNFILE=PATH+EXISTING FILE NAME |
;          COMMAND LINE PARAMETERS.  IF THE PATH IS NOT IN THE SYSTEM
;          ENVIROMENT THEN THE PATH IS REQUIRED.  IF COMMAND LINE PARAMETERS ARE
;          USED THEN THEY MUST HAVE A PIPE SIGN PRECEDING THE COMMAND LINE
;          PARAMETERS.  RUNFILE EXECUTES UPON A "TXPERIOD" COMMAND OR UPON AN
;          "ATMESSAGE" COMMAND.  THE MAXIMUM LENGTH IS 255 CHARACTERS AND
;          ESCAPE CODE COMMANDS ARE ALLOWED.
;
;          EXAMPLE:  RUNFILE=C:\TEMP\FTP_SCRIPT.EXE | "C:\TEMP\ACTIVE_SCRIPT"

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; DUNRENAME:
;     AUTOMATICALLY RENAMES ALL FILES WITH A ".ZUN" EXTENSION TO THE SAME
;     FILE NAME WITH A ".DUN" EXTENSION.  ALSO, ALL FILES WITH A "*.ZN*"
;     EXTENSION ARE RENAMED WITH A "*.DN*" EXTENSION.  THE COMMAND SEQUENCE
;     IS DUNRENAME=PATH.  THE PATH IS THE FILE PATH WHERE ALL *.ZUN" AND
;     "*.ZN*" ARE LOCATED ON DISK.  DUNRENAME EXECUTES UPON A "TXPERIOD"
;     COMMAND OR UPON AN "ATMESSAGE" COMMAND.  THE MAXIMUM LENGTH IS 255
;     CHARACTERS AND ESCAPE CODE COMMANDS ARE ALLOWED.
;
;     EXAMPLE:  DUNRENAME=C:\SDCSAVE\^[^STN]
;
; SETMESSAGE:
;     SEQUENCE OF CHARS TO BE SENT AS A MESSAGE TO ALL LOADED DRIVERS.
;     ALL DRIVERS THAT HAVE AN "ATMESSAGE=" COMMAND MATCHING THE SENT
;     MESSAGE WILL EXECUTE.  THE MAX SEQUENCE LENGTH IS 255 CHARS.
;     THE SYSTEM CAN HANDLE UP TO 32 MESSAGES PER SECOND.  FOR
;     EXAMPLE THE COMMAND "SETMESSAGE=DIAL,LOGON,HANGUP^2" WILL SEND
;     THE MESSAGES 'DIAL' & 'LOGON' TO ALL OF THE LOADED DERIVERS AND
;     WILL SEND THE MESSAGE 'HANGUP' TO THE DRIVERS ON DEVICE # 2 ONLY.
;     THE MAXIMUM LENGTH FOR EACH MESSAGE IN THE SEQUENCE IS 24 CHARS.
;
; ATMESSAGE:
;     SEQUENCE OF CHARS THAT WILL CAUSE THE DRIVER TO EXECUTE IF EQUAL
;     TO THE RECEIVED "SETMESSAGE=" COMMAND STRING.  THE "SETMESSAGE="
;     AND "ATMESSAGE=" COMMANDS CAN APPEAR TOGETHER IN THE SAME DRIVER
;     AS LONG AS THEY ARE NOT EQUAL (THIS IS USEFULL FOR ORGANIZING
;     DRIVERS IN A LINK LIST AND EXECUTING IN ORDER).  THE MAX SEQUENCE
;     LENGTH IS 24 CHARS.
;
; DIRMESSAGE:
;     THE NAME OF A DIRECTORY PATH FOR THE SYSTEM TO MONITOR.  IF ANY
;     "*.MSG" FILES ARE DETECTED THEN THE NAME PORITION OF THE FILENAMES
;     WILL BE USED AS MESSAGES TO THE SYSTEM AS IN "SETMESSAGE".
;
; TXFILE:
;     COPIES OR MOVES ONE OR MORE FILES FROM SOURCE TO DESTINATION.
;     THE FORMAT IS "TXFILE=SOURCE_PATH\WHICH_FILES  DESTINATION_PATH
;     /MOVE (optional)".  IF THE "\WHICH_FILES" IDENTIFIER IS SET TO
;     "\=" THEN WHAT FOLLOWS MUST BE A SPECIFIC FILE TYPE IDENTIFIER
;     SUCH AS \=COMTRADE, \=HATHAWAY, \=SUMMARY, \=SELHIST, \=SELEVENT,
;     \=SELSUMMARY, \=LOGS, \=DFRHATHAWAY, OR \=RELINCOM.  THESE FILE
;     TYPE IDENTIFIERS ARE ONLY AVAILABLE FOR BASE50 FILES.
;
;     ALL SPECIFIED FILENAMES MUST INCLUDE FULLY QUALIFIED PATH STRINGS.
;     WHEN THE "TXFILE" COMMAND IS USED THE "TXCOMMAND" IS IGNORED.  THE
;     ";" CHARACTER IS RESERVED AND SHOULD NOT BE USED IN THIS COMMAND,
;     THE SOFTWARE USES THE ";" TO SEPERATE BETWEEN MULTIPLE "TXFILE"
;     COMMANDS.  ALL OF THE LISTED "TXFILE" COMMANDS ARE CONCATENATED
;     TO A SINGLE DATA BUFFER OF 1024 CHARACTERS MAXIMUM LENGTH.
;
;     FILE TRANSFER PROTOCOL:
;     -----
;
;     THE PROTOCOL IS VERY SIMPLE DESIGNED TO BE QUICK AND HIGHLY
;     DEPENDENT ON THE QUALITY OF THE COMMUNICATION LINK.  FIRST THE
;     TRANSMIT-END SENDS: (START BLOCK)+(FILE CONTENTS)+(END BLOCK)
;     AND THEN UPON "END BLOCK" THE RECEIVE-END SENDS: (ACK BLOCK).

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;
;   IN THE EVENT THE "END BLOCK" TERMINATOR WAS NOT RECEIVED THEN
;   THE RECEIVE-END WILL TERMINATE AND RESET IN 30 SECONDS FROM THE
;   TIME THAT THE LAST BYTE WAS RECEIVED.  THE BLOCK FORMATS ARE AS
;   FOLLOWS (ALL VALUES, MESSAGES AND PARAMETERS ARE ENCLOSED BY
;   PARENTHESIS AND ALL MESSAGES ARE CASE SENSITIVE):
;
;
;   START BLOCK:
;   -----
;
;   BYTE   1-2: THE VALUES (TEN)+(ELEVEN)
;   BYTE   3-23: THE MESSAGE (File Transfer Enable:)
;   BYTE   24: THE VALUE (TEN)
;   BYTE  25--: THE PARAMETERS (DESTINATION PATH)+(;)+
;               (FILE NAME)+(;)+
;               (SIZE)+(;)+
;               (PACKED FILE-DATE&TIME BORLAND FORMAT)+(;)+
;               (ASCII TRANSMIT-DATE&TIME)+(;)+
;               (OPTIONAL FIELD=LONG TSD FILE NAME)
;   BYTE  LAST: THE VALUES (TEN)+(ELEVEN)
;
;
;   FILE CONTENTS:
;   -----
;
;   THE ACTUAL FILE CONTENTS STARTING FROM FIRST TO LAST BYTE.
;
;
;   END BLOCK:
;   -----
;
;   BYTE    1: THE VALUE (SEVEN)
;   BYTE   2-7: THE MESSAGE (Crc:= )
;   BYTE   8-11: THE PARAMETER (16-BIT CRC CLACULATED FOR THE FILE
;               CONTENTS BLOCK ONLY.  THE MASK IS 8408 HEX AND THE
;               CRC IS SHIPPED IN ASCII HEX FORMAT WHERE 4 CHARACTERS
;               MAKE A WORD - HI BYTE FIRST - THE CRC IS INITIALIZED
;               TO FFFF AND IS NOT FLIPPED AT THE END AND MUST BE IN
;               UPPERCASE HEX NOTATION)
;   BYTE 12-13: THE VALUES (SEVEN)+(TEN)
;
;
;   ACK BLOCK:
;   -----
;
;   BYTE   1-2: THE VALUES (TEN)+(ELEVEN)
;   BYTE   3-21: THE MESSAGE (File Transfer Done:)
;   BYTE   22: THE VALUE (TEN)
;   BYTE 23-27: THE MESSAGE (Crc: )
;   BYTE 28-31: THE PARAMETER (16-BIT CRC CLACULATED FOR THE
;               RECEIVED FILE CONTENTS BLOCK ONLY.  THE MASK IS 8408
;               HEX AND THE CRC IS SHIPPED IN ASCII HEX FORMAT WHERE
;               4 CHARACTERS MAKE A WORD - HI BYTE FIRST - THE CRC
;               IS INITIALIZED TO FFFF AND IS NOT FLIPPED AT THE END
;               AND MUST BE IN UPPERCASE HEX NOTATION)
;   BYTE   32: THE VALUE (TEN)
;   BYTE  33--: A DUPLICATE OF THE "BYTE 25--" SECTION OF THE
;               RECEIVED "START BLOCK".
;   BYTE  LAST: THE VALUES (TEN)+(ELEVEN)
;
;
;   EXAMPLE:
;   -----
;
;   FOR EXAMPLE THE EXACT PROTOCOL TO TRANSFER A 2 BYTE FILE NAMED
;   HELLO.TXT CONTAINING THE WORD "HI" IS AS FOLLOWS (THE SKIPPED

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;          LINES ARE TRANSMITTED LINE FEEDS (VALUE=10)):
;          TX ->|
;              | File Transfer Enable:
;              | C:\TEMP;HELLO.TXT;000000002;645175976;4/10/2001 19:54:50;
;              | HICrc:= A7DB
;              |
;          RX <-|
;              | File Transfer Done:
;              | Crc: A7DB
;              | C:\TEMP;HELLO.TXT;000000002;645175976;4/10/2001 19:54:50;
;              |
;
;          TXDIAL:
;          VALID ONLY WHEN "TXFILE" IS SPECIFIED.  IF "TXFILE" FINDS FILES
;          TO TRANSFER THEN THE SEQUENCE OF CHARACTERS SPECIFIED IN "TXDIAL"
;          WILL BE TRANSMITTED FIRST.  THE MAX SEQUENCE LENGTH IS 255 CHARS.
;          EXAMPLE:  TXDIAL=[13;P1]ATDT 1,123-456-7899^[13;P60]
;          NOTE:  THE "P60" ABOVE WILL BE ABORTED UPON RECEIVING "CONNECT".
;
;          TXHANGUP:
;          VALID ONLY WHEN "TXFILE" IS SPECIFIED.  WHEN "TXFILE" FILE
;          TRANSFER IS DONE THE SEQUENCE OF CHARS IN THE "TXHANGUP" COMMAND
;          WILL BE TRANSMITTED.  THE MAX SEQUENCE LENGTH IS 255 CHARS.
;          EXAMPLE:  TXHANGUP=[P1]+++^[P3]ATH0^[13;P2]
;
;          TXSTART:
;          SEQUENCE OF CHARS TO TRANSMIT (ASCII OR BINARY) BEFORE "TXCOMMAND"
;          AND "TXLOGON" ("TXSTART" IS INSERTED AT THE BEGINING OF THESE
;          COMMANDS).  THE MAX SEQUENCE LENGTH IS 1024 CHARS.  ESCAPE SEQUENCES
;          ARE ALSO ALLOWED.
;
;          TXLOGON:
;          SEQUENCE OF CHARS TO TRANSMIT (ASCII OR BINARY) UPON LOADING OF
;          THE DRIVER FOR THE FIRST TIME ONLY.  THE MAX SEQUENCE LENGTH IS
;          255 CHARS.  TXLOGON WILL ONLY WORK FROM THE PARENT DRIVER.
;          ESCAPE SEQUENCES ARE ALSO ALLOWED.
;
;          TXCOMMAND:
;          SEQUENCE OF CHARS TO TRANSMIT (ASCII OR BINARY) UPON "TXPERIOD" OR
;          UPON ATMESSAGE OR BY REQUSET FROM THE CONTROL OPTIONS MENU.  THE
;          MAX SEQUENCE LENGTH IS 1024 CHARS.  ESCAPE SEQUENCES ARE ALLOWED
;          IN THIS COMMAND.  FOR EXAMPLE THE COMMAND:
;
;          ^[10;13;P2;YR;MON;DAY;HR;MIN;SEC;HSEC;ID;HDR;ADDR;SID;STN;VER;^TOTMW^2]
;
;          WILL CAUSE A RETURN, LINE FEED, DELAY 2 SECONDS, AND SO ON TO BE
;          TRANSMITTED OUT THE PORT.  ANOTHER EXAMPLE IS THE TERMINATE MODEM
;          CONNECTION COMMAND:
;
;          ^[10;13;P1]+++^[P3]ATH0^[13;10;P1;EXIT]
;
;          IN THIS EXAMPLE THE "EXIT" COMMAND IS A SYSTEM INSTRUCTION THAT
;          CAUSES THE SYSTEM TO SHUT DOWN AND RETURN CONTROL TO THE DOS HOST.
;          THE "EXIT" COMMAND CAN ONLY BE USED FOLLOWING A PAUSE COMMAND "P"
;          AS SHOWN IN THE EXAMPLE (FOR DOS ONLY).
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; ANOTHER EXAMPLE IS THE TRANSMIT FUNCTION KEYS COMMAND:
;
; ^[^F1;^F3;^F9;13;10;^CMND]
;
; IN THIS EXAMPLE THE "^F1" COMMAND WILL CAUSE THE SYSTEM TO SHIP
; THE CONTENTS OF THE F1 FUNCTION KEY OF THE SPECIFIED DEVICE OUT
; THE SPECIFIED PORT. THE VARIABLE NAMES "F1" TO "F9" AND "CMND"
; ARE RESERVED BY THE SYSTEM AND CANNOT BE USED AS NAMES FOR USER
; VARIABLES. "CMND" IS THE "EsqSeq Command" FIELD FOR EACH DEVICE.
;
; IF "TXCOMMAND=RTU-SOE" WAS SPECIFIED THEN THE PRECODED SES-92
; BINARY PROTOCOL FOR READING SOE POINTS FROM THE RTU WILL EXECUTE
; UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY" & "RXSTAY=2", USE THE "D0" DATA TYPE
; WITH THE "RXSTRIP" COMMANDS.
;
; IF "TXCOMMAND=RTU-ANALOG" WAS SPECIFIED THEN THE PRECODED SES-92
; BINARY PROTOCOL FOR READING ANALOG DUMPS FROM THE RTU WILL EXECUTE
; UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY" & "RXSTAY=2", USE THE "D0" DATA TYPE
; WITH THE "RXSTRIP" COMMANDS.
;
; IF "TXCOMMAND=RTU-STATUS" WAS SPECIFIED THEN THE PRECODED SES-92
; BINARY PROTOCOL FOR READING STATUS DUMPS FROM THE RTU WILL EXECUTE
; UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY" & "RXSTAY=2", USE THE "D0" DATA TYPE
; WITH THE "RXSTRIP" COMMANDS.
;
; IF "TXCOMMAND=SEL-351FM" WAS SPECIFIED THEN THE PRECODED SEL-351
; BINARY PROTOCOL FOR FAST METER OPERATIONS WILL EXECUTE UPON
; "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY" & "RXSTAY=2", USE THE "D0" DATA TYPE
; WITH THE "RXSTRIP" COMMANDS.
;
; IF "TXCOMMAND=SEL-EVENTS" WAS SPECIFIED THEN THE PRECODED SEL-351,
; 321, 251, AND 221 ASCII PROTOCOL FOR AUTOMATIC EVENT CAPTURE WILL
; EXECUTE UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=20", "RXEND=^[03]", "RXPLUS=0".
;
; IF "TXCOMMAND=SYNC-ARB" WAS SPECIFIED THEN THE PRECODED ARBITRAR
; ASCII PROTOCOL FOR READING THE GPS CLOCK'S TIME AND SETTING THE
; PC'S SYSTEM CLOCK WILL EXECUTE UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=4", "RXEND" AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=SYNC-TRUE" WAS SPECIFIED THEN THE PRECODED TRUE TIME
; ASCII PROTOCOL FOR READING THE GPS CLOCK'S TIME AND SETTING THE
; PC'S SYSTEM CLOCK WILL EXECUTE UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=4", "RXEND" AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=DNP-ANALOG" WAS SPECIFIED THEN THE PRECODED DNP 3.0
; PROTOCOL FOR READING ANALOG VALUES FROM IEDS WILL EXECUTE UPON
; "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY", "RXSTAY=4". USE THE "D0" DATA TYPE
; WITH THE "RXSTRIP" COMMANDS.
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; IF "TXCOMMAND=HATH-DFR" WAS SPECIFIED THEN THE PRECODED HATHAWAY
; DFR-II PROTOCOL FOR EXTRACTING THE LATEST RECORDS AND SAVING TO
; SEPERATE FILES USING THE HATHAWAY NAMING CONVENTION WILL EXECUTE
; UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY", "RXSTAY=15", "RXEND=1B 03 FF",
; "RXPLUS=1".
;
; IF "TXCOMMAND=REL-30X" WAS SPECIFIED THEN THE PRECODED ABB MDAR &
; REL30X PROTOCOL FOR EXTRACTING THE LATEST RECORDS AND SAVING TO
; SEPERATE FILES USING THE LONG FILENAME CONVENTION WILL EXECUTE
; UPON "TXPERIOD" OR "ATMESSAGE"...
; REQUIREMENTS: "TYPE=BINARY", "RXSTAY=10", "RXEND" AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=REL-30X-M" WAS SPECIFIED THEN THE PRE-CODED ABB
; REL30X-M ROTOCOL FOR EXTRACTING THE LATEST METER VALUES WILL EXECUTE
; UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=HEX", "RXSTAY=4", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
; METER VALUES EXTRACTED: DATE AND TIME, LOP, LOI, IA AND ANGLE
; IB AND ANGLE, IC AND ANGLE, VA AND ANGLE, VB AND ANGLE & VC AND
; ANGLE.
;
; IF "TXCOMMAND=DLP-EVENTS" WAS SPECIFIED THEN THE THE PRE-CODED
; GE DLP-EVENTS PROTOCOL FOR EXTRACTING THE LATEST EVENT RECORDS AND
; SUMMARIES WILL EXECUTE UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=HEX", "RXSTAY=10", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=DPU-MOVBUS" WAS SPECIFIED THEN THE PRE-CODED ABB
; DPU-MOVBUS PROTOCOL FOR EXTRACTING THE LATEST EVENT RECORDS WILL
; EXECUTE UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=HEX", "RXSTAY=10", "RXEND=[13;10]", RXPLUS IN
; THIS CASE IS RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=ROCH-DFR" WAS SPECIFIED THEN THE PRE-CODED ROCHESTER
; DFR PROTOCOL FOR EXTRACTING THE LATEST EVENT RECORDS WILL EXECUTES
; UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=HEX", "RXSTAY=8", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=GE-D60" WAS SPECIFIED THEN THE PRE-CODED GE-D60
; PROTOCOL FOR EXTRACTING THE LATEST EVENT RECORDS WILL EXECUTE UPON
; "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=HEX", "RXSTAY=8", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=FTP-EVENTS" WAS SPECIFIED THEN THE PRE-CODED STANDARD
; FTP PROTOCOL EXECUTES UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=4", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
;
; IF "TXCOMMAND=FTP-SEND" WAS SPECIFIED THEN THE PRE-CODED STANDARD
; FTP PROTOCOL EXECUTES UPON "TXPERIOD" OR "ATMESSAGE".
; REQUIREMENTS: "TYPE=ASCII", "RXSTAY=4", RXEND AND "RXPLUS" IN
; THIS CASE ARE RESERVED FOR INTERNAL USE.
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; TXEND:
; SEQUENCE OF CHARS TO TRANSMIT (ASCII OR BINARY) AFTER "TXCOMMAND"
; AND "TXLOGON" ("TXEND" IS INSERTED AT THE END OF THESE COMMANDS).
; THE MAX SEQUENCE LENGTH IS 1024 CHARS. ESCAPE SEQUENCES ARE ALSO
; ALLOWED.
;
; TXPERIOD:
; THE TRANSMIT CYCLE IN SECONDS (AN INTEGER NUMBER UP TO 2 MILLION).
; FOR EXAMPLE, IF "TXPERIOD=4" WAS SPECIFIED THEN THE "TXSTART",
; "TXCOMMAND", AND "TXEND" STRINGS ARE CONCATENATED AND TRANSMITTED
; ONCE EVERY 4 SECONDS. IF "TXPERIOD=0" WAS SPECIFIED THEN THESE
; ACTIONS WILL NOT OCCUR UNLESS "TXDELAY>0" WAS SPECIFIED IN WHICH
; CASE THE DRIVER WILL EXECUTE ONE TIME ONLY. IF "TXPERIOD=T0800"
; WAS SPECIFIED THEN THE DRIVER WILL EXECUTE AT 08:00 MILITARY TIME.
;
; TXDELAY:
; THE DURATION IN SECONDS TO WAIT BEFORE THE TRANSMIT CYCLE BEGINS.
; FOR EXAMPLE, IF "TXDELAY=3" WAS SPECIFIED THEN ONLY THE FIRST
; OCCURRENCE OF "TXPERIOD" IS DELAYED BY 3 SECONDS. IN THE PREVIOUS
; EXAMPLE THE FIRST PERIOD WILL OCCUR AFTER 7 SECONDS AND ALL OTHERS
; WILL OCCUR 4 SECONDS APART. IF "TXPERIOD=0" WAS SPECIFIED THEN
; SPECIFYING "TXDELAY" WILL CAUSE THE DRIVER TO EXECUTE ONLY ONE
; TIME (USEFULL FOR LOGON PROCEDURES).
;
; TXBREAK:
; THIS COMMAND SENDS A NUMBER OF BREAK SIGNALS TO THE CONNECTED
; DEVICE. THE SEQUENCE RUNS BY FIRST CALLING THE WINAPI SETCOMMBREAK
; FUNCTION TO SUSPEND CHARACTER TRANSMISSION FOR THE SPECIFIED
; COMMUNICATIONS DEVICE AND PLACES THE TRANSMISSION LINE IN A BREAK
; STATE UNTIL THE CLEARCOMMBREAK FUNCTION IS CALLED. IT THEN WAITS THE
; SPECIFIED BREAK TIME THEN CALLS THE WINAPI CLEARCOMMBREAK FUNCTION
; TO RESTORE CHARACTER TRANSMISSION FOR THE SPECIFIED COMMUNICATIONS
; DEVICE AND PLACES THE TRANSMISSION LINE IN A NONBREAK STATE. IT THEN
; PAUSES THE SPECIFIED PAUSE TIME BEFORE REPEATING THE SEQUENCE. THIS
; SEQUENCE IS REPEATED THE NUMBER OF TIMES SPECIFIED IN THE COMMAND
; BREAK PARAMTERS. THE CALLING SCHEME IS TXBREAK=# OF TIMES TO REPEAT
; SEQUENCE, TIME INTERVAL IN MILLISECONDS BETWEEN SETCOMMBREAK AND
; CLEARCOMMBREAK, TIME INTERVAL BETWEEN SEQUENCE CALLS.
;
; EXAMPLE: TXBREAK=2,500,250
;
; ONDAY:
; THE DRIVER COMMANDS WILL BE PROCESSED ON THE SPECIFIED DAY OF EACH
; MONTH FOR THE DURATION OF THAT DAY. THE RANGE OF VALUES ALLOWED
; IS 1 TO 31. USE THIS COMMAND IN COMBINATION WITH THE MILITARY
; TIME "TXPERIOD" COMMAND TO PERFORM MONTHLY FUNCTIONS.
;
; ONDOW:
; THE DRIVER COMMANDS WILL BE PROCESSED ON THE SPECIFIED DAY OF EACH
; WEEK FOR THE DURATION OF THAT DAY. THE RANGE OF VALUES ALLOWED IS
; 1 TO 7 (FROM 1=MONDAY TO 7=SUNDAY). USE THIS COMMAND ALONG WITH
; THE MILITARY TIME "TXPERIOD" COMMAND TO PERFORM WEEKLY FUNCTIONS.
;
; RXSTART:
; SEQUENCE OF CHARS FROM THE DEVICE INDICATING "START OF RESPONSE"
; (STX). THE MAXIMUM SEQUENCE LENGTH FOR "RXSTART" IS 255 CHARS. THIS
; STRING IS USED TO SYNC WITH START OF RESPONSE. FOR EXAMPLE: THE
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; NUMERIC VALUE 2 (02 HEX) IS USED BY MANY DEVICES TO INDICATE THE
; START OF THE RESPONSE. IN THIS CASE USE "RXSTART=^[02]" IF
; "TYPE=ASCII", OR "RXSTART=02" IF "TYPE=HEX".
;
;
; RXEND:
; SEQUENCE OF CHARS FROM THE DEVICE INDICATING "END THE RESPONSE"
; (ETX). THE MAXIMUM SEQUENCE LENGTH FOR "RXEND" IS 255 CHARS. THIS
; STRING IS USED TO INDICATE THAT THE DRIVER HAS RECIEVED THE FULL
; RESPONSE. UPON "RXEND" THE SYSTEM WILL PROCESS THE "RXSTRIP" PARSE
; COMMANDS AND WHEN FINISHED THE DRIVER IS UNLOADED SO THAT OTHER
; DRIVERS (THAT ARE DEFINED AT THE SAME PORT) CAN EXECUTE. ALSO UPON
; "RXEND" THE "RXSTAY" DELAY IS ABORTED. FOR EXAMPLE: THE NUMERIC
; VALUE 3 (03 HEX) IS USED BY MANY DEVICES TO INDICATE THE END OF A
; RESPONSE. IN THIS CASE USE "RXEND=^[03]". IF "TYPE=ASCII", OR
; "RXEND=03". IF "TYPE=HEX".
;
;
; RXPLUS:
; SOME DEVICES TRANSMIT A CHECK SUM OR CRC CODE AFTER "RXEND".
; IN THIS CASE, THE "RXEND" NO LONGER INDICATES THE PHYSICAL END
; OF THE RESPONSE. USE "RXPLUS" TO DEFINE THE TOTAL NUMBER OF BYTES
; BEYOND "RXEND". FOR EXAMPLE: IF "RXEND=1B 03" IS SET AND THE ACTUAL
; RESPONSE ENDS IN "1B 03 FF 83", THEN USE "RXPLUS=2"
;
;
; RXSTAY:
; THERE IS A DELAY BETWEEN THE TIME THAT A COMMAND IS TRANSMITTED
; AND THE TIME THAT THE RESPONSE BEGINS TO ARRIVE. FURTHERMORE,
; THERE ARE BREAKS DURING TRANSMISSION WHERE THE RESPONDING DEVICE
; MAY PAUSE AND THEN CONTINUE TO TRANSMIT. SUCH DELAYS AND PAUSES
; SHOULD BE TIMMED USING TERMINAL MODE TO STUDY HOW THE DEVICE
; RESPONDES. THE LARGEST DELAY OR PAUSE SHOULD BE RECORDED IN THE
; "RXSTAY" COMMAND. IF "RXSTAY=4" IS DEFINED THEN THE SYSTEM WILL
; INITIATE AN INTERNAL COUNTER THAT WOULD COUNT UP TO 4 SECONDS FROM
; THE TIME THAT THE LAST BYTE WAS RECEIVED. IF NEW BYTES ARRIVE
; DURING "RXSTAY" THEN THE INTERNAL COUNTER IS INITIALIZED. THE
; DEFAULT VALUE IS "RXSTAY=3". ONCE THE INTERNAL COUNTER REACHES
; "RXSTAY" THEN THE SYSTEM WILL UNLOADED THE DRIVER SO THAT OTHER
; DRIVERS (THAT ARE DEFINED AT THE SAME PORT) CAN EXECUTE. ONCE
; "RXEND" IS ENCOUNTERED, "RXSTAY" ABORTS.
;
;
; RXWAIT:
; If "RXEND" is known and the number of bytes received after the
; defined "RXEND" is unknown use "RXWAIT" to wait a number of seconds
; before ending the driver. For example, when a modem connects it
; sends a "Connect" signal. The number of bytes it sends after the
; "Connect" signal varies. Set "RXWAIT=" to delay the driver from
; being unloaded. This ensures that all the data remaining to be
; received goes to the proper device file "DEV_###.DTB". Refer to
; the example modem driver below.
;
;
; RXQUIT:
; IF "RXEND" IS NOT DETECTED, SET "RXQUIT" CAN BE USED TO SEND
; MESSAGE COMMANDS, UP TO 24 CHARACTERS, TO ALL LOADED LOADED DRIVES.
;
;
; RXCLEAR:
; THE RECIEVE BUFFER WILL NOT BE CLEARED UPON TXPERIOD AND WILL BE
; ALLOWED TO BUILD UP TO THE TOTAL NUMBER OF FIELDS (RXSTRIP LINES).
; THE RANGE OF VALUES FOR RXCLEAR IS 0 OR 1 (DEFAULT=0). THIS IS

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;           USEFULL FOR CREATING SCROLLABLE INFORMATION.
;
; RXSAVE:
;           THE RECEIVE DATA IS BUFFERED INTO LINK LIST WITH 256 CHARACTERS
;           PER LINK.  TO SAVE THE BUFFERED DATA TO A TEXT OR BINARY FILE
;           (DEPENDS ON THE TYPE SETTING) USE RXSAVE=FILENAME.  FOR EXAMPLE,
;           THE OPTIMHO DRIVER BUFFERS THE DATA THEN WHEN COMPLETE IT SAVES
;           THE BUFFERED DATA TO A FILE.  THE MAXIMUM LENGTH IS 255 CHARACTERS
;           AND ESCAPE CODE COMMANDS ARE ALLOWED.  THE FOLLOWING EXAMPLE SAVES
;           THE RECEIVED DATA TO A TEXT FILE CALLED RX-DEVICE#.BUF (RX-2.BUF)
;           IN THE C:\SDCSAVE DIRECTORY.
;
;           RXSAVE=C:\SDCSAVE\RX-^[ID].BUF
;
; RXSTRIP:
;           SEQUENCE OF CHARS OR BYTES TO STRIP FROM THE RECIEVED DATA AND
;           DISPLAY ON SCREEN [UP TO 512 RXSTRIP COMMANDS PER DRIVER].  THE
;           RXSTRIP COMMANDS ARE EXECUTED FOLLOWING THE SEQUENCE IN WHICH THEY
;           APPEAR.
;
;           N# = LINE NUMBER TO STRIP OR BLOCK NUMBER FOR BINARY [POSITIVE #]
;           IF "N0" IS SPECIFIED THEN THE FIELD IS A HEADER FIELD ONLY.
;           HEADER FIELDS CAN BE USED TO DISPLAY VARIABLES DEFINED OR
;           CALCULATED USING THE @, +, -, *, /, &, |, >, OR < COMMANDS.
;           S# = STARTING CHARACTER OR BYTE NUMBER TO STRIP [FROM 1 TO 512].
;           T# = TOTAL CHARS OR BYTES TO STRIP [ASCII=1 TO 75, BINARY=1 TO 4].
;           B# = THE Nth NON-BLANK SEQUENCE OF CHARS TO STRIP.  FOR EXAMPLE
;           TO STRIP "VINY" FROM "MY NAME IS VINY" USE THE COMMAND "B4".
;           BC# = THE Nth COMMA SEQUENCE OF CHARS TO STRIP.  FOR EXAMPLE
;           TO STRIP "VINY" FROM "MY,,NAME,IS,,VINY" USE THE COMMAND
;           "BC7".
;           D# = TYPE OF DATA TO DISPLAY.  THE AVAILABLE TYPES ARE:
;           0: ASCII (READ EACH BYTE AS AN ASCII CODE),
;           1: INTEGER (CONVERT 1, 2 OR 4 BYTES TO INTEGER STRING),
;           2: HEX (CONVERT 1 BYTE TO A HEX STRING),
;           3: REAL (4 BYTE IEEE SINGLE FLOAT TO A REAL STRING),
;           4: ASCII-HEX (CONVERT 1, 2 OR 4 HEX CHARS TO DECIMAL), OR
;           5: ASCII-DECIMAL (READ ASCII STRING AS DECIMAL).
;           6: ASCII-CODED-DECIMAL (CONVERT HEX STRING TO ASCII CODE).
;           "" = HEADER TO DISPLAY AHEAD OF THE STRIPED DATA [MAX 24 CHARS].
;           H# = COLOR TO DISPLY THE HEADER [FROM 0 TO 15].
;           X# = COLUMN # TO DISPLAY THE HEADER AND THE DATA [FROM 1 TO 75].
;           Y# = ROW # TO DISPLAY THE HEADER AND THE DATA [FROM 1 TO 8].
;           C# = COLOR TO DISPLAY THE STRIPPED DATA [FROM 0 TO 15].
;           V# = COMPARE PARSED DATA WITH # STRING (SHOW HEADER IF EQUAL).
;           V=# = COMPARE PARSED DATA WITH # STRING (SHOW HEADER IF EQUAL).
;           V># = COMPARE PARSED DATA WITH # STRING (SHOW HEADER IF GREATER).
;           V<# = COMPARE PARSED DATA WITH # STRING (SHOW HEADER IF LESS).
;           V~# = COMPARE PARSED DATA WITH # STRING (SHOW HEADER IF NOT EQUAL).
;           U# = UPPER OFFSET FOR THE V TRIGGER (V+U HYSTERESIS (DEFAULT=0)).
;           L# = LOWER OFFSET FOR THE V TRIGGER (V-L HYSTERESIS (DEFAULT=0)).
;           P# = PERSISTANCE (# OF TRUE READINGS BEFORE TRIGGER (DEFAULT=1,
;           DISABLE=0)).
;           M"" = IF THE V COMMAND TRIGGERED THEN SEND THE MESSAGE IN "".
;           MF"" = IF THE V COMMAND TRIGGERED THEN SEND THE MESSAGE FORWARD ONLY.
;           JC# = IF V TRIGGERED BYPASS THEN NEXT # RXSTRIPS (JUMP CONDITIONAL).
;           J# = BYPASS THE NEXT # RXSTRIP COMMANDS (JC# OVER RIDES J#).
;           *# = MULTIPLY PARSED DATA BY A CONSTANT (ASCII-DECIMAL).

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;           15 - WHITE
;
;
; * AVAILABLE ESCAPE CODE COMMANDS:
;     Y - 2 DIGIT YEAR (CURRENT DATE AND TIME FROM SYSTEM CLOCK)
;     YR - 4 DIGIT YEAR
;     MON - MONTH
;     DAY - DAY
;     HR - HOUR
;     MIN - MINUTE
;     SEC - SECOND
;     HSEC - HUNDREDTH SECOND
;     ID - DEVICE NUMBER
;     HDR - DEVICE NAME
;     ADDR - DEVICE ADDRESS
;     SID - STATION NUMBER
;     STN - STATION NAME
;     VER - PROGRAM'S VERSION NUMBER
;     CRCSATEC - PROPRIETARY SATEC METER 8-BIT CHECKSUM
;     CRCMDAR - PROPRIETARY ABB MDAR RELAY CRC16 CHECKSUM
;     CRCBI - PROPRIETARY BITRONICS METER 8-BIT CHECKSUM
;     CRCDLP - PROPRIETARY DLP RELAY CRC16 CHECKSUM
;     CRHYDRAN - PROPRIETARY HYDRAN 8-BIT CHECKSUM
;     CRCHATH - PROPRIETARY HATHAWAY DFR 8-BIT CHECKSUM
;     EXIT - CLOSE WAVEIWN AND RETURN CONTROL TO DOSPORT.BAT (DOS ONLY)
;     P# - PAUSE # OF SECONDS (MAX DELAY IS 99 SECONDS)
;     # - ANY 1 BYTE INTEGER NUMBER IN DECIMAL (0 TO 255)
;     ^X^Y - THE VARIABLE NAME "X" FROM DEVICE# "Y"
;     %#:N - THE TEXT # WILL BE LEFT JUSTIFIED WITH BLANKS TO THE LENGTH
;           OF N
;     $FILE:N - READ Nth LINE IN FILE AND INSERT IN THE COMMAND
;
; * RESERVED VARAIABLE NAMES ARE:
;     F1..F9 - THE FUNCTION KEYS ASSIGNED TO EACH DEVICE IN THE DEVICE
;             MANAGER TABLE.
;     HDR - IS THE "TITLE" FIELD ASSIGNED TO EACH DEVICE.
;     ADDR - IS THE "ADDRESS" FIELD ASSIGNED TO EACH DEVICE.
;     CMND - IS THE FIRST PARAMETER IN THE "EscSeq Command" FIELD.
;     CMND1 - IS THE SECOND PARAMETER IN THE "EscSeq Command" FIELD.
;     CMND2 - IS THE THIRD PARAMETER IN THE "EscSeq Command" FIELD.
;     CMND3 - IS THE FOURTH PARAMETER IN THE "EscSeq Command" FIELD.
;     CMND4 - IS THE FIFTH PARAMETER IN THE "EscSeq Command" FIELD.
;     CMND5 - IS THE SIXTH PARAMETER IN THE "EscSeq Command" FIELD.
;     CMND6 - IS THE SEVENTH PARAMETER IN THE "EscSeq Command" FIELD.
;     CMND7 - IS THE EIGHTTH PARAMETER IN THE "EscSeq Command" FIELD.
;     STN - IS THE "STATION" FIELD ASSIGNED TO EACH DEVICE.
;     SID - IS THE "STATION NUMBER" ASSIGNED TO EACH DEVICE.
;     PID - IS THE "PORT NUMBER" ASSIGNED TO EACH DEVICE.
;
; WAVEWIN COMMAND LINE PARAMETERS
;
; PORTS - THE "PORTS" COMMAND LINE WILL AUTOMATICALLY RUN THE DEVICE
;         MANAGER WHEN WAVEWIN IS EXECUTED. TO HAVE THE POLLING START
;         IN THE MID OR DXF WINDOW WHEN WAVEWIN EXECUTES YOU MUST ADD
;         THE PORTS & MID OR DXF COMMAND LINE PARAMETERS TO THE
;         WAVEWIN32.EXE PROPERTIES DIALOG.
;
; MID - THE "MID" COMMAND LINE WILL AUTOMATICALLY RUN THE MID WINDOW
;        AFTER THE DEVICE MANAGER HAS BEEN FULLY LOADED. TO HAVE THE

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;           POLLING START IN THE MID WINDOW WHEN WAVEWIN EXECUTES YOU
;           MUST ADD THE PORTS & MID COMMAND LINE PARAMETERS TO THE
;           WAVEWIN32.EXE PROPERTIES DIALOG.
; DXF       - THE "DXF" COMMAND LINE WILL AUTOMATICALLY RUN THE DXF WINDOW
;           AFTER THE DEVICE MANAGER HAS BEEN FULLY LOADED. TO HAVE THE
;           POLLING START IN THE DXF WINDOW WHEN WAVEWIN EXECUTES YOU
;           MUST ADD THE PORTS & DXF COMMAND LINE PARAMETERS TO THE
;           WAVEWIN32.EXE PROPERTIES DIALOG. THE DXF WINDOWS MUST BE
;           ENTERED INTO THE DEFINE DXF DIALOG BEFORE RUNNING THE SYSTEM
;           WITH THE DXF COMMAND LINE PARAMETER. REFER TO THE "CHANGE
;           DXF FILES" SECTION IN THE WAVEWIN DEVICE MANAGER MANUAL.
; BROADCAST - THE "BROADCAST" COMMAND LINE WILL AUTOMATICALLY RUN THE
;           STATION'S BROADCAST MODE WHEN WAVEWIN IS EXECUTED.
; REMOTE    - THE "REMOTE" COMMAND LINE WILL RUN WAVEWIN IN REMOTE CONTROL
;           MODE. THIS MODE IS USED WHEN CALLING INTO A WAVEWIN STATION
;           AND USING A THIRD PARTY SOFTWARE TO TAKE CONTROL OF THE
;           MACHINE. WAVEWIN WILL BY PASS ALL DEVICES DEFINED AT THE
;           PORT THAT IS BEING USED TO CALL IN TO THE WAVEWIN STATION.
; REPORT    - THE "REPORT" COMMAND LINE IS USED WHEN THE WAVEWIN STATION
;           IS TO AUTOMATICALLY CALL ANOTHER WAVEWIN STATION AND SHIP
;           ALL THE EXTRACTED FILES. A "REPORTIF" DRIVER IS REQUIRED IN
;           THE DRIVERS.INI FILE.
; PATH & FILENAME - IF A PATH AND FILENAME IS PASSED AS A COMMAND LINE PARAMETER
;           THEN THE PATH AND FILENAME MUST BE SURROUNDED BY QUOTES,
;           SUCH AS "C:\FAULTLIBRARY\EVENT1.DAT". WAVEWIN WILL
;           AUTOMATICALLY OPEN THE FILE.
; /VIEW     - THIS "/VIEW" COMMAND LINE PARAMETER IS USED ALONG WITH A
;           PATH AND FILENAME COMMAND LINE TO DEFINE TO AUTOMATICALLY
;           OPEN THE DEFINED FILE WHEN WAVEWIN IS EXECUTED.
; /PRINT    - THIS "/PRINT" COMMAND LINE PARAMETER IS USED ALONG WITH A ;
;           PATH AND FILENAME COMMAND LINE TO DEFINE TO AUTOMATICALLY
;           OPEN AND PRINT THE DEFINED FILE WHEN WAVEWIN IS EXECUTED.
; /BATCH    - THE "BATCH" COMMAND LINE PARAMETER IS USED ALONG WITH A PATH
;           AND BATCH FILENAME COMMAND LINE TO AUTOMATICALLY OPEN THE
;           DEFINED BATCH FILE AND EXECUTE EACH COMMAND LINE DEFINED IN
;           THE FILE. THIS FEATURE IS MAINLY USED TO PRINT A NUMBER OF
;           FILES.
; /X        - THE "/X" COMMAND LINE PARAMETER TELLS WHERE TO DISPLAY
;           WAVEWIN'S LEFT CORNER WHEN EXECUTED.
; /Y        - THE "/Y" COMMAND LINE PARAMETER TELLS WHERE TO DISPLAY
;           WAVEWIN'S UPPER CORNER WHEN EXECUTED.
; /W        - THE "/W" COMMAND LINE PARAMETER TELLS THE WIDTH OF THE
;           WAVEWIN APPLICATION WHEN EXECUTED.
; /H        - THE "/H" COMMAND LINE PARAMETER TELLS THE HEIGHT OF THE
;           WAVEWIN APPLICATION WHEN EXECUTED.
; /EXIT     - THE "EXIT" COMMAND LINE WILL AUTOMATICALLY EXIT WAVEWIN
;           AFTER ALL OTHER COMMAND LINE PARAMETERS ARE FULLY COMPLETE.

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